Unclassified
Div 81

For our other building products catalogs consult Sweet's Files as follows:

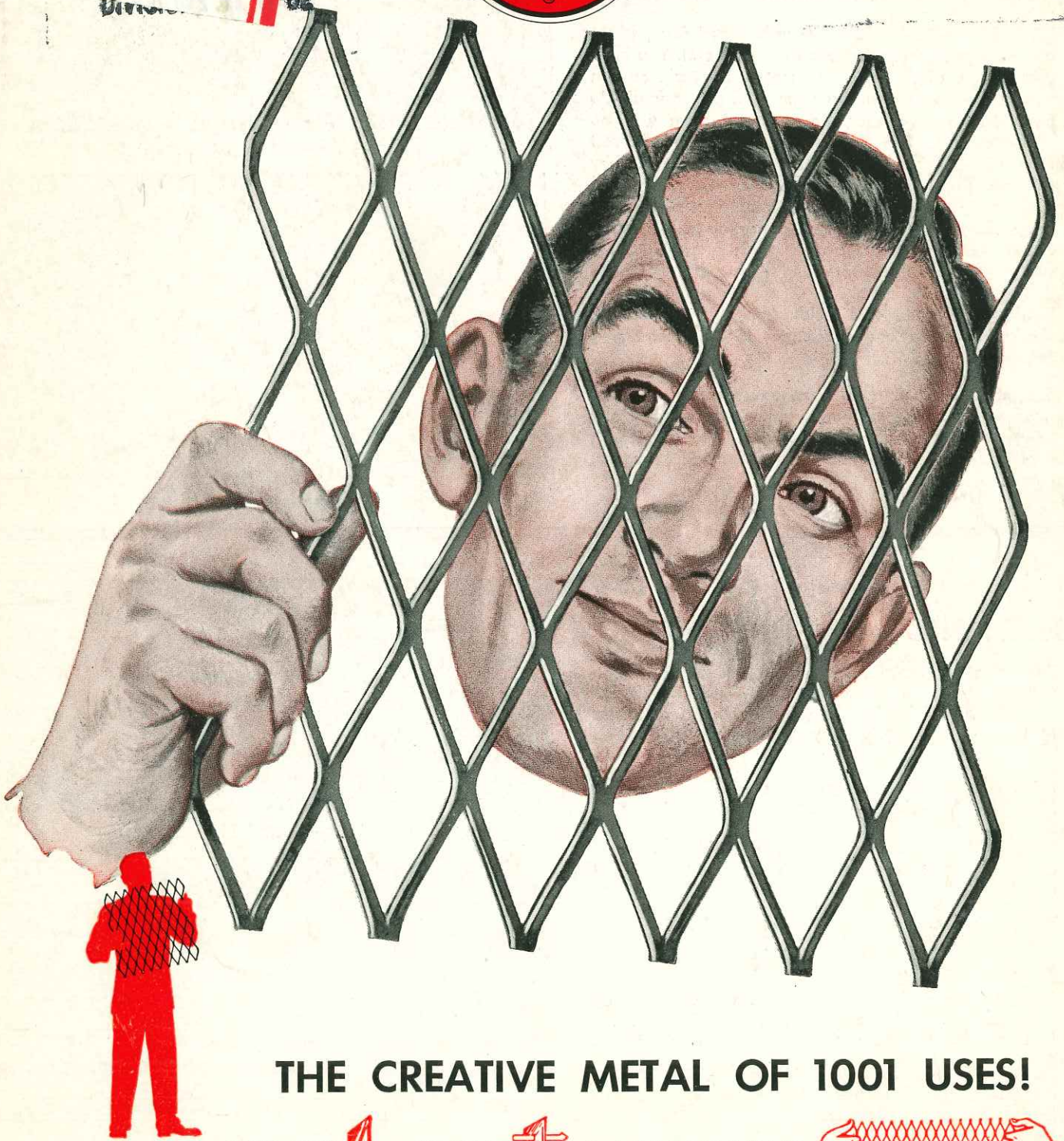
Roof Deck	Industrial Construction	2e/Wh
	Architectural	2f/Wh
Expanded Metal Grating & Partitions	Plant Engineering	5e/Wh
	Industrial Construction	3g/Wh
Metal Lath	Architectural	12a/Wh
Suspension Systems	Architectural	11b/Wh

expanded metal

Class 13
No. 118

Wheeling
CORRUGATING COMPANY

JUN 27 1960
U. S. PATENT OFFICE



THE CREATIVE METAL OF 1001 USES!

SOLID STEEL PIERCED And S-T-R-E-T-C-H-E-D

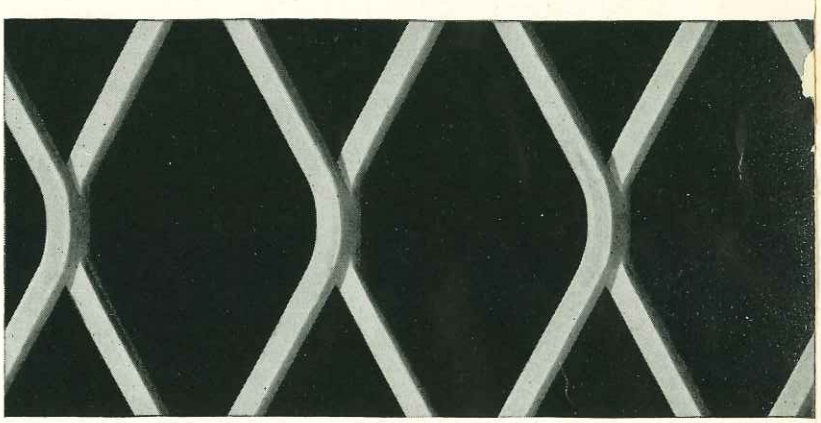
WHEELING EXPANDED METAL...

WHEELING EXPANDED METAL is a modern material that is used for literally thousands of purposes. It is easily fabricated into various end products — meeting practically any design requirement. Not only is it strong, but it cannot ravel.

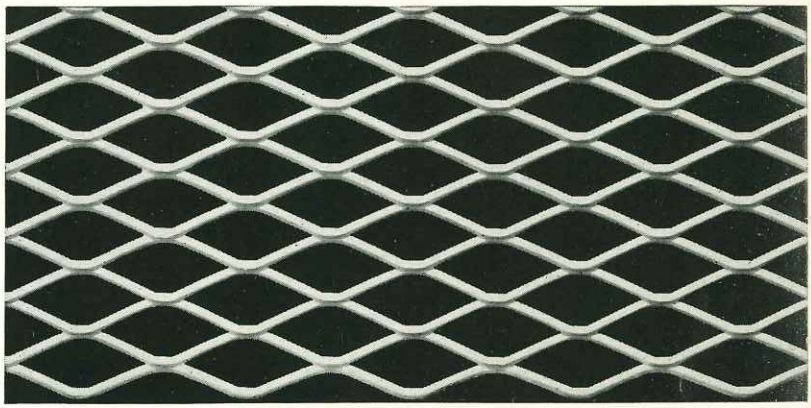
WHEELING SAFE-T-MESH

WHEELING SAFE-T-MESH, the unflattened form, is cut and expanded from a single sheet of metal. You have your choice of the following metals in stock: carbon steel; stainless steel; and aluminum. Other expandable metals, such as copper, brass, and bronze may be specially ordered. Whatever your choice, WHEELING SAFE-T-MESH can be cut and formed to almost any size and shape. The diamond strands are rectangular and provide strength, lightness, maximum air circulation, and visability. Because the strands of the unflattened expanded metal are at a sharp angle to the original plane of the metal sheet, stresses are distributed to the supporting frames . . . thus giving rigidity. It is free of rivets and welding. It may be formed, sheared, welded and fabricated to meet necessary requirements.

Supplied in a variety of sizes and weights, this material enhances the usefulness and appearance of any product or project on which it is used. Decorate it with practically any type of coating, such as paint, lacquer, plastic, etc.



1 ½"—NO. 9 SAFE-T-MESH



½"—NO. 16 SAFE-T-MESH

WHEELING FLATTENED EXPANDED METAL

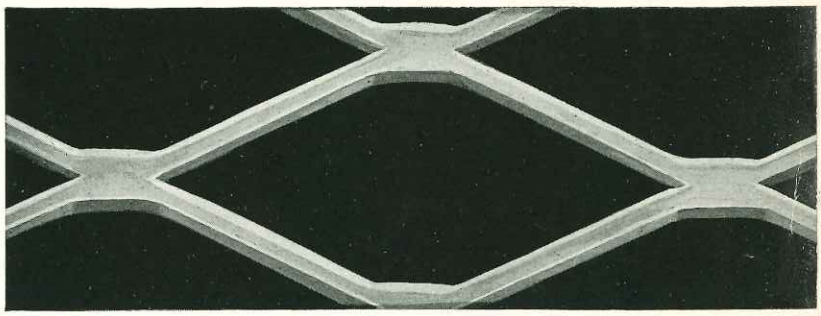
Because of its strength, decorative quality and the ease with which it is worked, WHEELING FLATTENED EXPANDED METAL is ideal for grills, baskets, trays, bins, all types of shelving, display stands, store fixtures and backgrounds.

It is made by the same process as WHEELING SAFE-T-MESH. After the sheet is cut and expanded, it is passed through a series of rolls that flatten the strands and bridges. This reduces the thickness of the original sheet approximately two gauges, but retains all the original metal.

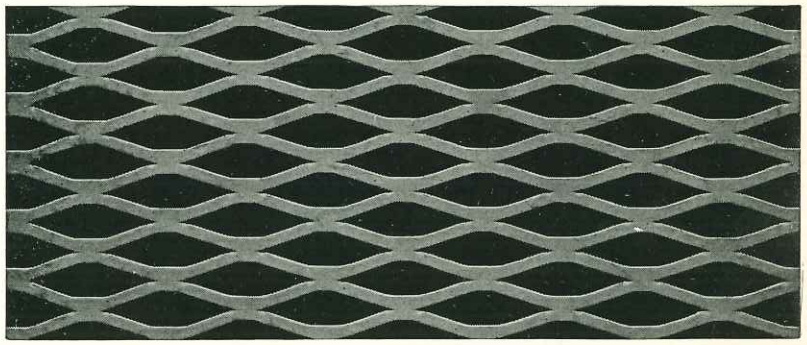
WHEELING FLATTENED EXPANDED METAL is highly decorative and fashionable . . . for furniture, room dividers or flower pot holders and other uses.

Many unique and attractive effects are obtained by finishing it with paint, lacquer, bronzing liquids . . . by electroplating; or applying rubber or plastic coatings.

Both WHEELING SAFE-T-MESH and FLATTENED EXPANDED METAL lend themselves to any type coating having the proper viscosity.



1 ½"—NO. 9-11 FLATTENED



½"— NO. 18-20 FLATTENED

solid metal you can see through

Wheeling CORRUGATING COMPANY

Safe-T-Mesh—available in these popular styles in carbon steel

All dimensions and weights are approximate and subject to mill tolerances.

(1) Style Designation	Weight in Lbs. per Sq. Ft.		(2) Standard Sizes in Feet Widths - Lengths	Size of Opening in Inches		Center to Center of Bridges in Inches		Sizes of Strand in Inches		Number of Diamonds in 12 Inches		Percent Open Area
	Plain	Galv.		Width	Length	Width	Length	Thickness	Width	Width	Length	
3/16"-24,50#	.50	—	3 x 8	11/64	7/16	.200	.50	.024	.050	60	24	49-55
3/16"-22,63#	.63	—	3 x 8	11/64	7/16	.200	.50	.030	.050	60	24	49-55
3/16"-20,75#	.75	—	3 x 8	11/64	7/16	.200	.50	.036	.050	60	24	49-55
1/4"-20	.86	1.29	3-4 x 8	11/64	23/32	.255	1.0	.036	.073	47	12	48-58
1/4"-18	1.14	1.71	3-4 x 8	11/64	23/32	.255	1.0	.048	.073	47	12	42-59
1/2"-20	.43	.59	3-4 x 8	7/16	15/16	.500	1.2	.036	.072	24	10	76-82
1/2"-18	.70	.85	3-4-6 x 8	7/16	15/16	.500	1.2	.048	.088	24	10	75-80
1/2"-16	.86	.97	3-4 x 8	3/8	15/16	.500	1.2	.060	.087	24	10	69-73
1/2"-13	1.47	1.73	3-4 x 8	5/16	15/16	.500	1.2	.092	.096	24	10	56-60
3/4"-16Hy.	.54	.65	3-4-6 x 8-10	13/16	1 3/4	.923	2.0	.060	.010	13	6	84-86
3/4"-13	.80	.92	3-4-6 x 8-10-12	3/4	1 11/16	.923	2.0	.092	.096	13	6	76-80
3/4"-10	1.20	1.36	3-4-6 x 8-10-12	3/4	1 5/8	.923	2.0	.092	.144	13	6	71-77
3/4"- 9	1.80	1.95	3-4-6 x 8-10-12	11/16	1 9/16	.923	2.0	.134	.150	13	6	65-68
1" -16	.44	.51	4 x 8	1	2 1/16	1.09	2.4	.060	.097	11	5	84-88
(3) 1 1/2"-18	.20	.25	4 x 8	1 5/16	2 5/8	1.33	3.0	.048	.068	9	4	93-94
1 1/2"-16	.40	.48	4 x 8	1 1/4	2 5/8	1.33	3.0	.060	.108	9	4	88-90
1 1/2"-13	.60	.68	3-4-6 x 8-10-12	1 3/16	2 1/2	1.33	3.0	.092	.105	9	4	84-88
1 1/2"-10	.79	.89	3-4-6 x 8-10-12	1 3/16	2 1/2	1.33	3.0	.092	.138	9	4	84-86
1 1/2"- 9	1.20	1.31	3-4-6 x 8-10-12	1 1/8	2 3/8	1.33	3.0	.134	.144	9	4	74-77
1 1/2"- 6	2.50	2.73	3-4-6 x 8- -12	1	2 5/16	1.33	3.0	.198	.203	9	4	61-65
2" -10	.68	.75	3-4-6 x 8-10-12	1 5/8	3 7/16	1.85	4.0	.092	.164	6 1/2	3	84-89
2" - 9	.90	1.02	4 x 8-10-12	1 9/16	3 3/8	1.85	4.0	.134	.149	6 1/2	3	83-87

Note:

(1) Style Designation—First number represents nominal width of diamond in inches. Second number represents approximate gauge of plate before expanding, except that No. 10 is expanded from approximately No. 13 gauge plate. Third number, where shown, represents weight.

(2) Width of sheet always corresponds to short way of diamond. Sheet sizes are always given as width by length.

(3) Furnished non-processed only.

The width of the sheet is measured in the direction of the short dimension of the diamond and represented as S.W.D. The lengh of the sheet is measured in the direction of the long dimension of the diamond and represented as L.W.D. Thus, in preparing orders or inquiries for other than standard size sheets (regardless of dimensions), sheet sizes must always be given as width (S.W.D.) by length (L.W.D.) in accordance with diamond dimensions rather than apparent sheet size. *Available in many other styles including skywalk, walkway and grating. Many styles also manufactured from Type No. 304 Stainless Steel and Type No. 3003-H14 Aluminum.*

Flattened Mesh—available in these popular styles in carbon steel

All dimensions and weights are approximate and subject to mill tolerances.

(1) Style Designation	Weight in lbs. per Sq. Ft.		Std. Sizes in Feet Widths - Lengths	Size of Opening in Inches		Center to Center of Bridges in Inches		Thickness of Strand in Inches	Number of Diamonds in 12 Inches		Percent Open Area
	Plain	Galv.		Width	Length	Width	Length		Width	Length	
3/16"-24-26,49#	.49	—	3 x 8	5/64	29/64	.200	.520	.019	60	23	39-45
3/16"-22-24,61#	.61	—	3 x 8	5/64	29/64	.200	.520	.024	60	23	39-45
3/16"-20-22,73#	.73	—	3 x 8	5/64	29/64	.200	.520	.029	60	23	39-45
1/4"-20-22	.83	1.24	3-4 x 8	3/32	11/16	.255	1.031	.030	47	11.64	46-49
1/4"-18-20	1.11	1.65	3-4 x 8	3/32	11/16	.255	1.031	.040	47	11.64	39-42
1/2"-20-22	.40	.51	3-4 x 8	3/8	1	.500	1.26	.029	24	9.5	70-73
1/2"-18-20	.66	.88	3-4 x 8-10-12	9/32	1	.500	1.26	.039	24	9.5	67-70
1/2"-16-18	.82	1.00	3-4 x 8	1/4	1	.500	1.26	.050	24	9.5	59-62
1/2"-13-15	1.40	1.62	3-4 x 8	1/4	1	.500	1.26	.070	24	9.5	55-58
3/4"-16-18 Hy.	.51	.71	3-4 x 8-10	3/4	1 3/4	.923	2.10	.048	13	5.7	74-77
3/4"-14-16	.63	.75	3-4 x 8-10	11/16	1 13/16	.923	2.12	.061	13	5.62	74-77
3/4"-13-15	.75	.86	3-4 x 8-10-12	11/16	1 25/32	.923	2.10	.070	13	5.62	72-75
3/4"- 9-11	1.71	1.86	3-4 x 8-10-12	5/16	1 11/16	.923	2.12	.120	13	5.62	62-65
1" 16-18	.41	.50	4 x 8	7/8	2 1/4	1.09	2.56	.048	11	4.684	76-79
1 1/2"-16-18	.38	.44	4 x 8	1 1/16	2 3/4	1.33	3.20	.048	9	3.8	81-84
1 1/2"-14-16	.46	.56	3-4 x 8-12	1 1/16	2 3/4	1.33	3.20	.060	9	3.8	81-84
1 1/2"-13-15	.57	.68	3-4 x 8	1 1/16	2 3/4	1.33	3.20	.070	9	3.8	78-81
1 1/2"- 9-11	1.14	1.28	3-4 x 8-10	1	2 9/16	1.33	3.20	.110	9	3.747	75-78

Note: (1) Style Designation—First number represents nominal width of diamond in inches. Second number represents approximate gauge of plate before expanding. Third number represents approximate gauge of strand thickness after flattening. Fourth number, where shown, represents weight. *Many styles also manufactured from Type No. 304 Stainless Steel and Type No. 3003-H14 Aluminum. Available in many other styles including explate, flattened skywalk and walkway meshes.*

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RETURN TO
DESIGN DIV.

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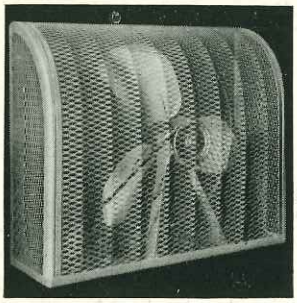


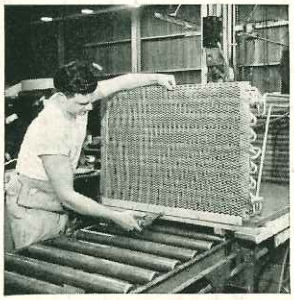
Fans

Chairs

Flower Pot Holders

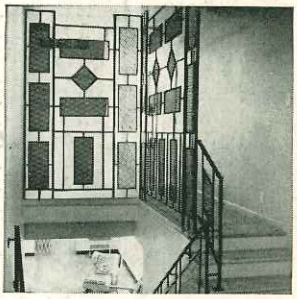
Clothes Hamper

Display Stand

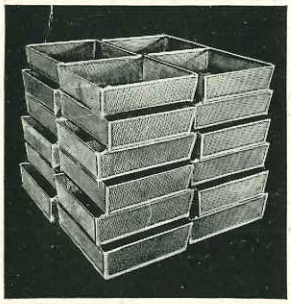


Appliance Facings

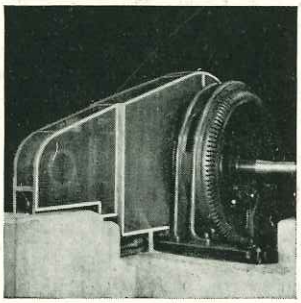
Push Carts



Decorative Partitions

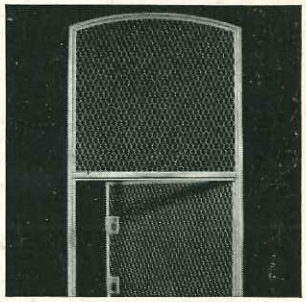


Baskets



Machine Guards

Shelves



Window Guard

WHEELING SERVICE is at your service!

Wherever you are . . . whatever you need . . . Wheeling's vast network of warehouses and sales offices stand ready to serve you. They are your assurance of on-time delivery. That means no delay, no wait. You get delivery when you want it . . . very often the same day you call . . . right from Wheeling's own warehouse.

Wheeling's consulting engineers and product designers are always ready to serve you, answer any questions you may have or act in an advisory capacity you like. No obligation, of course.

Consult the Yellow Pages of your Classified Directory for address and telephone number of Wheeling warehouse nearest you.

Wheeling
CORRUGATING COMPANY

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